

WEST Search History

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DATE: Sunday, September 25, 2005

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
		<i>DB=PGPB,USPT; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L12	Ford-William\$.in. or Yasuda-Akio\$.in.	176
<input type="checkbox"/>	L11	L10 not l8	0
<input type="checkbox"/>	L10	Ford-William\$.in. and Yasuda-Akio\$.in.	12
<input type="checkbox"/>	L9	Ford-William?.in. and Yasuda-Akio.in.	0
<input type="checkbox"/>	L8	Wessels-Jurina\$.in.	18
<input type="checkbox"/>	L7	Wessels-J\$.in.	57
<input type="checkbox"/>	L6	dimercaptoacetamidooctane or dithiocarbamatobenzene or dithiocarbamatocyclohexane	1
<input type="checkbox"/>	L5	dimercaptoacetamidocyclohexane	1
<input type="checkbox"/>	L4	dimercaptoacetamidobenzene	1
<input type="checkbox"/>	L3	dimercaptoacetamido adj3 anthraquinone	1
<input type="checkbox"/>	L2	dimercaptoaceamidocyclohexane	0
<input type="checkbox"/>	L1	dimercaptoaceamidobenzene	0

END OF SEARCH HISTORY

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1639MLS

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 JUL 20 Powerful new interactive analysis and visualization software,
STN AnaVist, now available
NEWS 4 AUG 11 STN AnaVist workshops to be held in North America
NEWS 5 AUG 30 CA/CAPLUS - Increased access to 19th century research documents
NEWS 6 AUG 30 CASREACT - Enhanced with displayable reaction conditions
NEWS 7 SEP 09 ACD predicted properties enhanced in REGISTRY/ZREGISTRY
NEWS 8 SEP 22 MATHDI to be removed from STN

NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

All use of STN is subject to the provisions of the STN Customer
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research. Use for software development or design or implementation
of commercial gateways or other similar uses is prohibited and may
result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

*FEDRIP - Federal Research in Progress Database

* The files listed above are temporarily unavailable.

FILE 'HOME' ENTERED AT 17:52:19 ON 25 SEP 2005

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.42

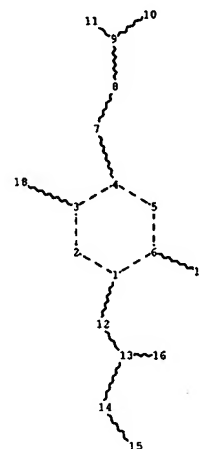
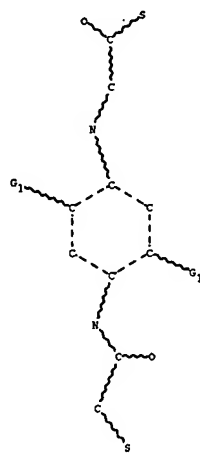
0.42

FILE 'REGISTRY' ENTERED AT 17:53:11 ON 25 SEP 2005

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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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chain nodes :

7 8 9 10 11 12 13 14 15 16 17 18

ring nodes :

1 2 3 4 5 6

chain bonds :

1-12 3-18 4-7 6-17 7-8 8-9 9-10 9-11 12-13 13-14 13-16 14-15

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :

1-2 1-6 1-12 2-3 3-4 3-18 4-5 4-7 5-6 6-17 7-8 9-10 9-11 12-13
13-16 14-15

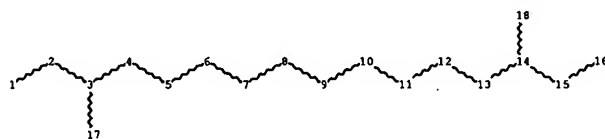
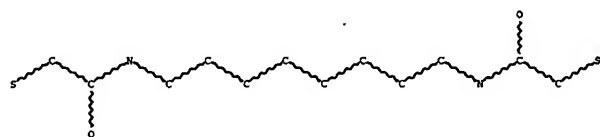
exact bonds :

8-9 13-14

G1:Cl,Ak

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS8:CLASS9:CLASS
10:CLASS11:CLASS12:CLASS13:CLASS14:CLASS15:CLASS16:CLASS17:CLASS
18:CLASS



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

chain bonds :

1-2 2-3 3-4 3-17 4-5 5-6 6-7 7-8 8-9 9-10 10-11 11-12 12-13 13-14
14-15 14-18 15-16

exact/norm bonds :

1-2 3-4 3-17 4-5 12-13 13-14 14-18 15-16

exact bonds :

2-3 5-6 6-7 7-8 8-9 9-10 10-11 11-12 14-15

Match level :

1:CLASS2:CLASS3:CLASS4:CLASS5:CLASS6:CLASS7:CLASS8:CLASS9:CLASS
10:CLASS11:CLASS12:CLASS13:CLASS14:CLASS15:CLASS16:CLASS17:CLASS
18:CLASS

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 23 SEP 2005 HIGHEST RN 863870-12-6
DICTIONARY FILE UPDATES: 23 SEP 2005 HIGHEST RN 863870-12-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

```
*****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
*****
```

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10006636B1.str

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR

Structure diagram not available for display

Structure attributes must be viewed using STN Express query preparation.

=> l1 sss sam

SAMPLE SEARCH INITIATED 17:53:58 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 1 TO 80

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=>

Uploading C:\Program Files\Stnexp\Queries\10006636B2.str

L3 STRUCTURE UPLOADED

=> d

L3 HAS NO ANSWERS

L3 STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> l3 sss sam

SAMPLE SEARCH INITIATED 17:55:20 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 200 TO ITERATE

100.0% PROCESSED 200 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 3152 TO 4848

PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L3

=> l1 exa sam

STRUCTURES CONTAINING VARIABLE NODES NOT VALID IN EXACT OR FAMILY SEARCH

You have requested a full structure (EXA or FAM) search on a structure containing one of the special variable-atom symbols

A, M, Q, or X, or a variable group G. Only bond variability

is allowed in structures for EXA or FAM searches. Variable

nodes are never permitted.

=> l3 exa sam

SAMPLE SEARCH INITIATED 17:55:58 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 0 TO 0

PROJECTED ANSWERS: 0 TO 0

L5 0 SEA EXA SAM L3

=> l3 sss full

FULL SEARCH INITIATED 17:56:56 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 4460 TO ITERATE

100.0% PROCESSED 4460 ITERATIONS

2 ANSWERS

SEARCH TIME: 00.00.01

L6 2 SEA SSS FUL L3

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

163.91

164.33

FILE 'CAPLUS' ENTERED AT 17:57:10 ON 25 SEP 2005

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FILE COVERS 1907 - 25 Sep 2005 VOL 143 ISS 14
FILE LAST UPDATED: 23 Sep 2005 (20050923/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> 16

L7 1 L6

=> d fbib abs hitstr

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2000:859343 CAPLUS

DN 134:88704

TI Electrochemical behavior of polyamides with cyclic disulfide structure and their application to positive active material for lithium secondary battery

AU Tsutsumi, Hiromori; Oyari, Yoshiaki; Onimura, Kenjiro; Oishi, Tsutomu

CS Department of Applied Chemistry and Chemical Engineering, Yamaguchi University, Ube, 755-8611, Japan

SO Journal of Power Sources (2001), 92(1-2), 228-233

CODEN: JPSODZ; ISSN: 0378-7753

PB Elsevier Science S.A.

DT Journal

LA English

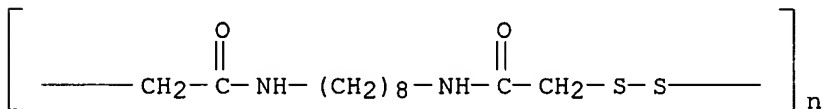
AB Polyamides (DTA-I, DTA-II, and DTA-III) containing cyclic disulfide structure were prepared by condensation between 1,2-dithiane-3,6-dicarboxylic acid (DTA) and alkyl diamine, $\text{NH}_2\text{-(CH}_2\text{)}_n\text{-NH}_2$ (DTA-I; $n=4$, DTA-II; $n=6$, DTA-III; $n=8$) and their application to pos. active material for lithium secondary batteries was investigated. Cyclic voltammetry (CV) measurements under slow sweep rate (0.5 mV/s) with a carbon paste electrode containing the polyamide (DTA-I, DTA-II, or DTA-III) were performed. The results indicated that the polyamides were electroactive in the organic electrolyte solution (propylene carbonate (PC)-1,2-dimethoxyethane (DME), 1:1 by volume containing lithium salt, such as LiClO_4). The responses based on the redox of the disulfide bonds in the polyamide were observed. Test cells, Li/PC-DME (1:1 by volume) with 1 mol dm⁻³ LiClO_4 /the polyamide cathode, were constructed and their performance was tested under constant current charge/discharge condition. The average capacity of the test cells with the DTA-III cathode was 64.3 Ah/kg of cathode (135 Wh/kg of cathode, capacity (Ah/kg) of the cathode+average cell voltage (2.10 V)). Performance of the cell with linear polyamide containing disulfide bond ($\text{-CO-(CH}_2\text{)}_2\text{-S-S-(CH}_2\text{)}_2\text{-CONH-(CH}_2\text{)}_8\text{-NH-}$, GTA-III) was also investigated and the average capacity was 56.8 Ah/kg of cathode (100 Wh/kg of cathode, capacity (Ah/kg) of the cathode+average cell voltage (1.76 V)). Cycle efficiency of the test cell with the DTA-III cathode was higher than that with the GTA-III cathode.

IT 316807-25-7

RL: DEV (Device component use); USES (Uses)
(electrochem. behavior of polyamides with cyclic disulfide structure
and their application as cathode material for lithium secondary
battery)

RN 316807-25-7 CAPLUS

CN Poly[dithio(2-oxo-1,2-ethanediyl)imino-1,8-octanediyylimino(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)



RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> FIL STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	5.39	169.72
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.73	-0.73

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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Sep 23, 2005 (20050923/UP)..

=> logoff y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.24	169.96
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.73

STN INTERNATIONAL LOGOFF AT 18:00:02 ON 25 SEP 2005